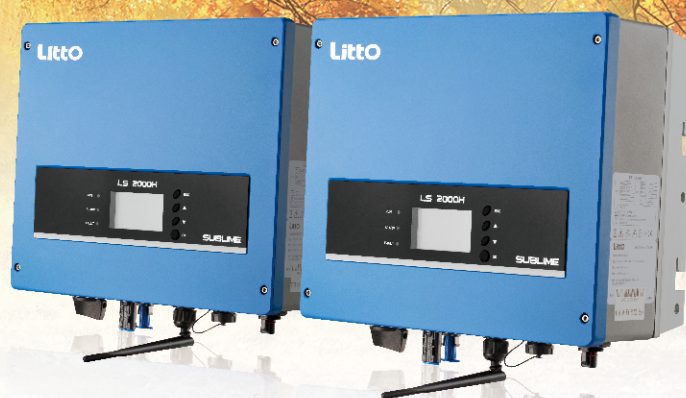


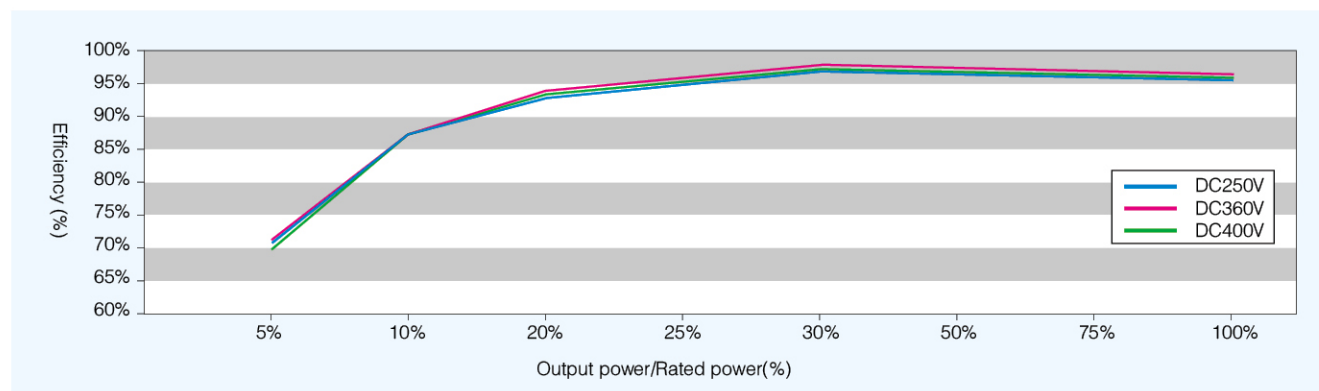
# LS 1000H LS 1500H / LS 2000H

## Leading - edge technology

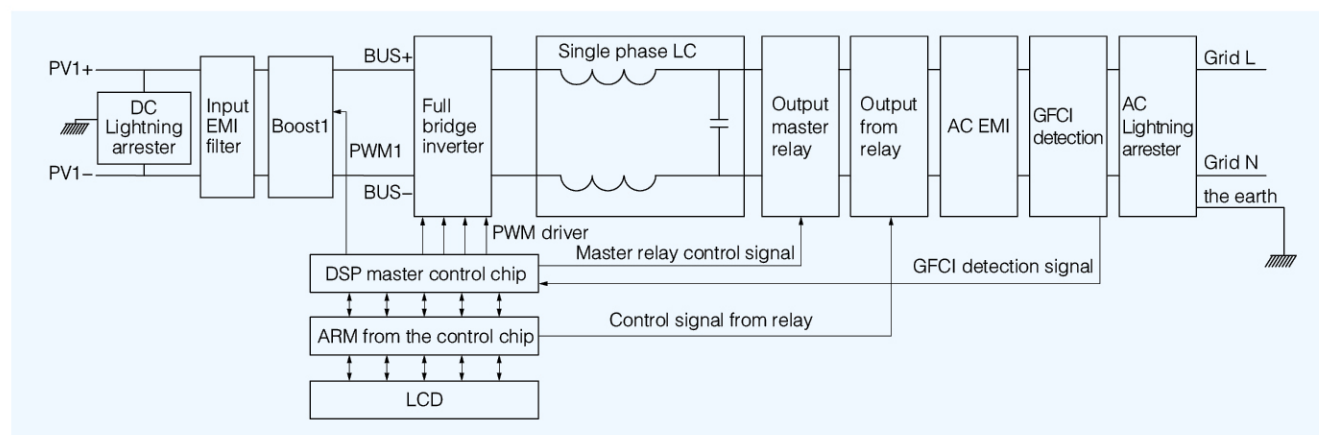
- Max.Efficiency 97.2%
- Internal DC Switch for added safety protection
- Transformerless design and easy installation
- Compact design
- Power factor continuously adjustable
- Flexible communication connection, support USB, WIFI, Ethernet
- Support online update from USB or ethernet
- 5 years standard warranty



## Efficiency curve



## Circuit diagram



## Technical specifications

DATASHEET	LS 1000H	LS 1500H	LS 2000H
INPUT DATA (DC)			
Max.DC power	1200W	1800W	2400W
Max.PV power of per MPPT	1200W	1800W	2400W
Max.DC voltage	450V	450V	450V
Start voltage	70V	70V	70V
DC voltage range	70–450V	70–450V	70–450V
MPPT work voltage range / nominal voltage	70–400V / 180V	70–400V / 250V	70–400V / 250V
Full load DC voltage range	110–400V	150–400V	200–400V
Max.input current	11.0A	11.0A	11.0A
Max.input current per string	11.0A	11.0A	11.0A
MPPT tracking number	1 / 1	1 / 1	1 / 1
OUTPUT (AC)			
Rated AC output power	1000W	1500W	2000W
Max.AC output power	1100W	1650W	2200W
Max.output apparent power	1100VA	1650VA	2200VA
Max.output current	5.0A	7.5A	10.0A
Rated grid voltage; Grid voltage range per phase	220V / 230V / 240V 180–280VAC	220V / 230V / 240V 180–280VAC	220V / 230V / 240V 180–280VAC
Rated power grid frequency; Grid frequency range	50Hz / 60Hz; $\pm 5$ Hz	50Hz / 60Hz; $\pm 5$ Hz	50Hz / 60Hz; $\pm 5$ Hz
Power factor ( $\cos\Phi$ )	0.8 i...1...0.8 c	0.8 i...1...0.8 c	0.8 i...1...0.8 c
Current harmonics (THDI)	< 3% (At nominal output power)	< 3% (At nominal output power)	< 3% (At nominal output power)
AC grid connection type	Single Phase	Single Phase	Single Phase
EFFICIENCY			
Max.Efficiency	97.0%	97.2%	97.2%
Euro– Efficiency	96.5%	96.7%	96.7%
MPPT Efficiency	99.9%	99.9%	99.9%
PROTECTION DEVICES			
DC reverse polarity protection	Integrated	Integrated	Integrated
DC switch for each MPPT	Integrated (opt)	Integrated (opt)	Integrated (opt)
Output over current protection	Integrated	Integrated	Integrated
Output over voltage protection	Integrated	Integrated	Integrated
Ground fault monitoring	Integrated	Integrated	Integrated
Grid monitoring	Integrated	Integrated	Integrated
Leakage current protection	Integrated	Integrated	Integrated
Island protection	Integrated	Integrated	Integrated
GENERAL DATA			
Dimensions (W × H × D) (mm)	355 × 295 × 170mm	355 × 295 × 170mm	355 × 295 × 170mm
Weight	9.7KG	10.5KG	10.5KG
Install way	Wall hanging fixed	Wall hanging fixed	Wall hanging fixed
Operating temperature range	–25°C ~+60°C	–25°C ~+60°C	–25°C ~+60°C
Noise emission	25db(A)	25db(A)	25db(A)
Altitude	3000m	3000m	3000m
Self–consumption at night	≤ 0.5W	≤ 0.5W	≤ 0.5W
Topology	H6 / Transformerless	H6 / Transformerless	H6 / Transformerless
Cooling concept	Natural	Natural	Natural
Overall protection level	IP65	IP65	IP65
Relative humidity (No condensation)	0~98%	0~98%	0~98%
FEATURES			
DC connection	H4 / MC4	H4 / MC4	H4 / MC4
AC connection	C16 / 3	C16 / 3	C16 / 3
Display	LCD / LED	LCD / LED	LCD / LED
Communication: USB / WIFI / RS485 / GPRS	yes / opt / yes / opt	yes / opt / yes / opt	yes / opt / yes / opt
Warranty: 5 years / 10 years	yes / opt	yes / opt	yes / opt
CERTIFICATES AND APPROVALS			
CE, VDE 0126–1–1, IEC 62109, G83–2, G59–3, AS4777, AS / NZS 3100, VDE–AR–N4105, EN50438, EN62116, CQC, MEA, PEA, IEC61683			